

## 检测报告 Test Report

报告编号 :SZR0912045665102  
Report No.:SZR0912045665102

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申请单位 :创裕铜业(深圳)有限公司  
**Applicant** :EXCEL PIONEER COPPER INDUSTRY(SHENZHEN) CO., LTD.  
地 址 :深圳市宝安区公明镇楼村第二工业区同富裕工业园 9 号一楼  
**Address** :NO.2 INDUSTRIAL PARK, LOU VILLAGE, GONGMING TOWN, BAOAN DISTRICT, SHENZHEN, CHINA

### 样品信息 Report on the submitted sample(s) said to be:

样品名称 Sample Name :镀锡铜线 TIN COATED COPPER WIRE  
样品描述 Sample Description :带有银色覆盖层的金属线 Metal wire with silver color plating  
样品接收日期 :2009.12.05  
Sample Received Date :Dec. 5, 2009  
样品检测日期 :2009.12.05-2009.12.11  
Testing Period :Dec. 5, 2009 to Dec. 11, 2009

**检测要求** :根据客户要求,对欧盟化学品管理局(ECHA)2009年9月1日公布要求进行公共咨询15种高关注物质(SVHC)进行筛选测试,该样品为整体测试.

**Test Requested** As specified by client, to screen the fifteen substances published on 1st September, 2009 for public consultation as Substances of Very High Concern by ECHA and it was tested as a whole.

**检测依据/检测结果** :请参见下页。

**Test Method/Test Result(s)** Please refer to the following page(s).

**摘要** :根据分析结果,所提交样品中15种物质浓度均小于0.1%。  
**Summary** According to the analytical results, concentrations of fifteen substances are all less than 0.1% in the submitted sample(s).

主 检:  
Tested by  
签 发:  
Approved by



技术经理  
Technical Manager

审 核:  
Inspected by  
签发日期:  
Date

2009.12.11  
Dec. 11, 2009

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检测依据 **Test Method:**

物质名称 Substance Name(s)	测试方法及仪器 Test Method and Equipments	检出限 Report Limit
①蒽油 Anthracene oil	内部方法 In-house method, GC-MS	0.05%
①蒽油,蒽糊,轻油 Anthracene oil, anthracene paste, distn. Lights *	内部方法 In-house method, GC-MS	0.05%
①蒽油,蒽糊,蒽馏分 Anthracene oil, anthracene paste,anthracene fraction	内部方法 In-house method, GC-MS	0.05%
①蒽油,含蒽量少 Anthracene oil, anthracene-low	内部方法 In-house method, GC-MS	0.05%
①蒽油,蒽糊 Anthracene oil, anthracene paste	内部方法 In-house method, GC-MS	0.05%
①煤焦油沥青,高温 Coal tar pitch, high temperature	内部方法 In-house method, GC-MS	0.05%
丙烯酰胺 Acrylamide	内部方法 In-house method, HPLC	0.01%
②硅酸铝耐火陶瓷纤维 Aluminosilicate, Refractory Ceramic Fibres	内部方法 In-house method, ICP-OES/SEM-EDS	0.05%
②氧化锆硅酸铝耐火陶瓷纤维 Zirconia Aluminosilicate, Refractory Ceramic Fibres	内部方法 In-house method, ICP-OES/SEM-EDS	0.05%
2,4-二硝基甲苯 2,4-Dinitrotoluene(DNT)	内部方法 In-house method, GC-MS	0.01%
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	参考 ASTM D 3421:1975 Refer to ASTM D 3421:1975,GC-MS	0.01%
②铬酸铅 Lead chromate	参考 EPA 3052:1996/EPA3060A:1996 Refer to EPA 3052:1996/ EPA 3060A:1996, ICP-OES/UV-Vis	0.05%
②钼铬红(C.I.颜料红 104)Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	参考 EPA 3052:1996/EPA3060A:1996 Refer to EPA 3052:1996/ EPA 3060A:1996, ICP-OES/UV-Vis	0.05%
②铅铬黄(C.I.颜料黄 34) Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	参考 EPA 3052:1996/EPA3060A:1996 Refer to EPA 3052:1996/ EPA 3060A:1996, ICP-OES/UV-Vis	0.05%
磷酸(三 2-氯乙基)酯 Tris(2-chloroethyl)phosphate (TCEP)	内部方法 In-house method, GC-MS	0.01%

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**物质信息 Substance Information:**

物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	分类 Classification
①蒽油 Anthracene oil	90640-80-5	292-602-7	持久性,生物积累性和毒性物质PBT
①蒽油,蒽糊,轻油 Anthracene oil, anthracene paste, distn. Lights *	91995-17-4	295-278-5	持久性,生物积累性和毒性物质PBT
①蒽油,蒽糊,蒽馏分 Anthracene oil, anthracene paste,anthracene fraction	91995-15-2	295-275-9	持久性,生物积累性和毒性物质PBT
①蒽油,含蒽量少 Anthracene oil, anthracene-low	90640-82-7	292-604-8	持久性,生物积累性和毒性物质PBT
①蒽油,蒽糊 Anthracene oil, anthracene paste	90640-81-6	292-603-2	持久性,生物积累性和毒性物质PBT
①煤焦油沥青,高温 Coal tar pitch, high temperature	659969-93-2	266-028-2	持久性,生物积累性和毒性物质; 第2类致癌性物质PBT;Carcinogen,cat.2
丙烯酸酰胺 Acrylamide	79-06-1	201-173-7	第2类致癌性物质;第2类致畸性物质 Carcinogen, cat.2;Mutagen, cat.2
②硅酸铝耐火陶瓷纤维 Aluminosilicate, Refractory Ceramic Fibres	-	650-017-00-8**	第2类致癌性物质 Carcinogen, cat.2
②氧化锆硅酸铝耐火陶瓷纤维 Zirconia Aluminosilicate, Refractory Ceramic Fibres	-	650-017-00-8**	第2类致癌性物质 Carcinogen, cat.2
2,4-二硝基甲苯 2,4-Dinitrotoluene(DNT)	121-14-2	204-450-0	第2类致癌性物质 Carcinogen, cat.2
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	第2类生殖系统毒性物质 Toxic for reproduction, cat.2
②铬酸铅 Lead chromate	7758-97-6	231-846-0	第2类致癌性物质;第1类生殖系统毒性物质Carcinogen, cat.2; Toxic for reproduction, cat.1
②钼铬红(C.I.颜料红 104) Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	第2类致癌性物质;第1类生殖系统毒性物质Carcinogen, cat.2; Toxic for reproduction, cat.1
②铅铬黄(C.I.颜料黄 34) Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	第2类致癌性物质;第1类生殖系统毒性物质Carcinogen, cat.2; Toxic for reproduction, cat.1
磷酸(三 2-氯乙基)酯 Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	第2类生殖系统毒性物质 Toxic for reproduction, cat.2

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检测结果 Test Result(s) :

物质名称 Substance Name(s)	浓度 Concentration (%)
<sup>①</sup> 蒽油 Anthracene oil	N.D.
<sup>①</sup> 蒽油,蒽糊,轻油 Anthracene oil, anthracene paste, distn. Lights *	N.D.
<sup>①</sup> 蒽油,蒽糊,蒽馏分 Anthracene oil, anthracene paste, anthracene fraction	N.D.
<sup>①</sup> 蒽油,含蒽量少 Anthracene oil, anthracene-low	N.D.
<sup>①</sup> 蒽油,蒽糊 Anthracene oil, anthracene paste	N.D.
<sup>①</sup> 煤焦油沥青,高温 Coal tar pitch, high temperature	N.D.
丙烯酰胺 Acrylamide	N.D.
<sup>②</sup> 硅酸铝耐火陶瓷纤维 Aluminosilicate, Refractory Ceramic Fibres	N.D.
<sup>②</sup> 氧化锆硅酸铝耐火陶瓷纤维 Zirconia Aluminosilicate, Refractory Ceramic Fibres	N.D.
2,4-二硝基甲苯 2,4-Dinitrotoluene(DNT)	N.D.
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	N.D.
<sup>②</sup> 铬酸铅 Lead chromate	N.D.
<sup>②</sup> 钼铬红(C.I.颜料红 104)Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	N.D.
<sup>②</sup> 铅铬黄(C.I.颜料黄 34) Lead sulfochromate yellow(C.I. Pigment Yellow 34)***	N.D.
磷酸(三 2-氯乙基)酯 Tris(2-chloroethyl)phosphate (TCEP)	N.D.

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### 注释 Note:

-N.D. = 未检出 Not Detected (小于检出限 report limit)

-0.1%(w/w)=1000ppm=1000mg/kg

- PBT= Persistent,Bioaccumulative,Toxic

-\*: 蒸馏所分离出来的轻油部分 Light fractions from distillation

-\*\*: 在化学物质及其混合物的分类, 标记与包装法规, 即 CLP 法规(法规(EC)No 1272/2008)的附录 VI 中, 索引号 650-017-00-8 适用于所有的耐火陶瓷纤维材料。

All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).

-\*\*\*C.I: 颜料索引号 Colour Index

-①: 由于这些物质是 UVCB 物质(未知成分或可变成成分的, 复杂反应物或生物材料的物质), 由各种不同的成分组成, 所以这些物质的测试结果是由选定的具有代表性的物质的主要组成成分的测试结果换算而来的。

In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

-②: 由于此物质含有多种物质, 测试结果是基于此物质中最具有代表性的主要组成化合物的含量, 其主要造成化合物的测试结果是基于特定的重金属元素的浓度换算而来。

In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.

### 备注 Remarks:

1. 2009 年 9 月 1 日欧盟化学品管理局 (ECHA) 在网站公布 15 种 SVHC 公共咨询物质 [http://echa.europa.eu/consultations/authorisation/svhc/svhc\\_cons\\_en.asp](http://echa.europa.eu/consultations/authorisation/svhc/svhc_cons_en.asp), 此物质清单在将来可能会有所更改。

The 15 substances are published for public consultation by ECHA on 1 September 2009 in the list at Website [http://echa.europa.eu/consultations/authorisation/svhc/svhc\\_cons\\_en.asp](http://echa.europa.eu/consultations/authorisation/svhc/svhc_cons_en.asp) and the substances list will possibly be changed in the future.

2. 以上物质的浓度值是基于最坏的情况鉴定, 建议做进一步的调查确定样品中是否含有相关物质。

As the concentration of above substance that identified is based on the worst case scenario. Further investigation is required for confirmation of the presence of Potential SVHC substance(s) in the sample.

3. 其检出限是针对其代表性物质之评估。

The report limit is evaluated based on the representative substances.

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1. 依据法规(EC) No 1907/2006(REACH)第 33 条规定——有责任交流物品当中有关物质的信息。

—物品中所含有的某一物质若符合第 57 条的标准且被鉴定依照第 59 条 (1) 该物质在物品中的浓度在重量比 (w/w) 0.1%以上, 其供应方需向接收方提供此物品的详细信息, 若可以, 还需提供包括至少物质名称在内的可获取的物质安全使用信息。

—根据消费者要求, 物品中所含有的某一物质若符合第 57 条的标准且被鉴定依照第 59 条 (1) 该物质在物品中的浓度在重量比 (w/w) 0.1%以上, 其供应方需向消费者提供此物品的详细信息, 若可以, 还需提供包括至少物质名称在内的可获取的物质安全使用信息。有关信息需在请求后 45 天内免费提供。

2. 依据法规(EC) No 1907/2006(REACH)第 33 条规定——通告物品中所含有的物质。

—如果某一物质符合第 57 条的标准且依照第 59 条 (1) 被鉴定, 该物品所含有的物质列入了候选名单中, 其 EU 和 EEA 生产商或者进口商必须告之 ECHA (欧盟化学品管理局)。若此物质显示超过了 0.1%重量比 (w/w) 且其生产/进口数量每年总计在 1 吨以上, 生产商和进口商有义务进行通报。

3. 依据法规(EC) No 1907/2006(REACH)的其他条例规定, 有义务提供物质本身的信息或者在配制品中的信息。

—义务: 物质

从 2008 年 10 月 28 日开始, 当物质列入候选名单时, 其 EU&EEA 供应方必须提供给客户安全数据清单。

—义务: 配制品

从 2008 年 10 月 28 日开始, 根据指令 1999/45/EC, 没有划分为危险品的配制品, 其 EU 和 EEA 供应商必须提供给接收方的, 若配制品中含有至少一种列入清单中的物质, 其浓度不超过非气态性配制品的重量比 (w/w) 0.1%, 且不超过气态性配制品的体积比 0.2%, 可以根据接受方的要求, 提供安全数据清单。

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### Appendix:

#### **1. According to the Article 33 of the Regulation (EC) No 1907/2006 (REACH)-Duty to communicate information on substances in articles.**

—Any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1 % weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

—On request by a consumer any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1 % weight by weight (w/w) shall provide the consumer with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance. The relevant information shall be provided, free of charge, within 45 days of receipt of the request.

#### **2. According to the Article 33 of the Regulation (EC) No 1907/2006 (REACH)- Notification of the Substance in Article.**

—If a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), EU and EEA producers or importers of articles have to notify ECHA when their article contains a substance on the Candidate List. This obligation applies if the substance is present above 0.1% (w/w) and its quantities in the produced/imported articles are above 1 tonne in total per year.

#### **3. According to the other articles of the Regulation (EC) No 1907/2006 (REACH), The relevant obligation for the substance on its own or in preparation.**

##### **—OBLIGATIONS: SUBSTANCES**

From 28 October 2008, EU & EEA suppliers of a substance have to provide a safety data sheet to their customers when the substance is on the Candidate List.

##### **—OBLIGATIONS: PREPARATIONS**

From 28 October 2008, EU and EEA suppliers of a preparation not classified as dangerous according to Directive 1999/45/EC have to provide the recipients, at their request, with a safety data sheet if the preparation contains at least one substance on the Candidate List and its individual concentration is at least 0.1% (w/w) for non gaseous preparations and at least 0.2% by volume for gaseous preparations.

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样品图片

Photo(s) of the sample(s)



\*\*\* 报告结束 \*\*\*

\*\*\* End of report \*\*\*

本报告无 CTI 盖章无效。本报告不得修改、增加或删除。此结果只对本次受测样品的结果负责。未经 CTI 书面同意，不得部分复制本报告，亦不可作为宣传品使用。

This report is considered invalidated without the Special Seal for Inspection of the CTI, This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of CTI, this test report shall not be copied except in full and published as advertisement.

深圳市宝安区 70 区鸿威工业园 C 栋

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